ABSTRACT

ANALYTICAL DETERMINATION OF ACTIVE COMPOUNDS BY LIQUID CHROMATOGRAPHY III.

Diploma Thesis

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In this thesis, the development of suitable conditions for analytical sample oxazepam in rabbit blood by high-performance liquid chromatography. For treatment of biological material used solid phase microextraction.

Analysis carried out on a C_{18} column. Mobile phase consisted of methanol and water mixture in the ratio 80:20. UV detector was used in the wavelength of 230 nm. Quantitative evaluation was carried out by internal standard, which was diazepam.

Oxazepam was isolated from biological material using SPME. For extraction was used the fiber PDMS / DVB, the desorption medium was methanol. Sorption and desorption time lasted 13 minutes. Extraction efficiency was 5, 9%.

For quantitative evaluation of calibration curve was prepared, which were subsequently verified by model samples.